TANK CLOSURE REPORT GEORGE AND LYNCH PROPERTY 426 WATER STREET DOVER, DELAWARE

DECEMBER 2006

Prepared for:

State of Delaware Department of Transportation Dover, Delaware

Prepared by:

Tetra Tech, Inc. 56 West Main Street, Suite 400 Christiana, DE 19702



T13735.60

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1.0 INTRODUCTION

Tetra Tech, Inc. was retained by the Delaware Department of Transportation (DelDOT) to oversee the removal of a 1,000-gallon underground storage tanks (UST) located at the former George and Lynch property located at 426 Water Street in Dover, Delaware (Figure 1). The property was purchased by DelDOT in early 2006. This report summarizes the closure activities associated with the removal of the UST.

2.0 SITE DESCRIPTION

The 1000-gallon UST was discovered on the northern-most portion of the former George & Lynch property during building demolition work being performed by a DelDOT Contractor. Based on the location of the UST, next to the former office building, and the physical characteristics of the tank and piping, it appears that the tank was used to store heating oil for heating of the office building. The UST does not appear to be one of the five USTs registered for the Site that were removed in 1993 and 1999.

Land use in the vicinity of the former George & Lynch property is a mix of residential and commercial. The closest surface water body to the former George & Lynch property is the St. Jones River, located approximately one half mile east of the subject property. Water is supplied to the subject site through the City of Dover municipal water supply system. There are no known on-site water supply wells. Database searches identified one public water supply well within a quarter mile radius south of the site and two USGS water wells approximately one-half mile north and east of the site.

3.0 UST REMOVAL PROCEDURE

The UST was removed from the site on June 21, 2006 according to applicable DNREC regulations by J&M Industries, Inc., Wilmington, Delaware (Delaware Business Certification ID #B-5112), under the direct supervision of a Tetra Tech geologist. Prior to removal, 350 gallons of residual product and water were pumped from the UST into a temporary tank and 55-gallon drums provided by J&M Industries. The residual product was taken to the J&M Industries yard and later pumped into a Delaware-permitted tanker truck supplied by B&E Oil Services, Inc. (along with residual product from other J&M Industries work sites), and disposed at a licensed oil recycling facility in Coatsville, Pennsylvania. A copy of the waste manifest is included in Appendix A.

After its removal, the tank was cold-cut, opened and cleaned by J&M Industry personnel certified with the required 40-hour Occupational Safety and Health Administration (OSHA) training. The tank was disposed at Diamond State Recycling Corporation's facility in Wilmington, Delaware. A copy of Diamond State's tank disposal certification is included in Appendix B.

Photographs taken during the excavation of the 1000-gallon UST at the former George & Lynch property are included in Appendix C.

4.0 SOIL SAMPLING

The Tetra Tech geologist collected one composite soil sample and one pit bottom grab soil sample (designated GL-1000-Comp and GL-1000-Grab) from the UST excavation on June 21, 2006. The soil samples were submitted to Mid-Atlantic Laboratories, Inc. (Claymont, Delaware) for diesel-range organics (DRO) analysis.

5.0 FIELD OBSERVATIONS

Specific observations made during the removal of the UST at the former George & Lynch property are as follows:

- The UST was constructed of steel and in fair to good condition. No holes were observed in the 1,000gallon UST.
- No stained soils were observed during the 1,000-gallon UST excavation activities.
- The subsurface material encountered in the excavation consisted of brown/gray fine to medium sand.
- Groundwater was not encountered in the 1,000-gallon UST excavation.

6.0 LABORATORY RESULTS

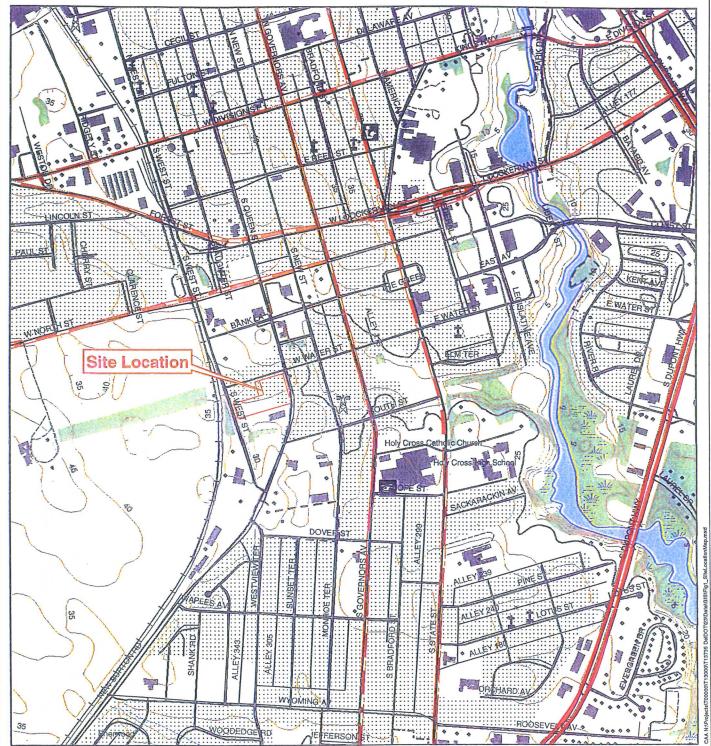
Copies of the Laboratory Report and Chain-of-Custody Form are included in Appendix D. A trace concentration (6.85 mg/kg) of DRO was detected in the pit bottom soil. DRO was not detected above its laboratory quantitation limit in the composite soil sample.

7.0 REGULATORY COMPLIANCE

The analytical results of the soil samples collected at the former George & Lynch property site were compared to Tier 0 Action Levels for residual soil contamination established by the Delaware Department of Natural Resources and Environmental Control's (DNREC) Underground Storage Tank Branch. The action level criterion is defined by DNREC as "minimum levels of hydrocarbon contamination in soils at a site which the Department uses to determine if additional action should be taken at the site." Based on this criterion, no soil sample collected at the former George & Lynch property exceeded DNREC's Action Level criterion (1,000 mg/kg) for soils.

8.0 CONCLUSIONS

Based on field observations and laboratory analyses of the soil samples collected during removal of the former 1000-gallon heating oil UST at the former George & Lynch property, there does not appear to have been a release that is a threat to human health or the environment.



Source: Roads from DelDOT; Tax Parcels from Kent Co.; Topo from USGS DLGs; USGS State and County Boundaries from National Allas (nationalatlas.gov).







Figure 1 Site Location Map George and Lynch Dover, Kent Co., DE

1 inch equals 1,000 feet
0 500 1,000 2,000

This map is provided by Tetra Tech solely for display and reference purposes and is subject to change without notice. No claims, either real or assumed, as to the absolute accuracy or precision of any data contained herein are made by Tetra Tech, nor will Tetra Tech be held responsible for any use of this document for purposes other than which it was intended.



ource: Roads from DelDOT; Tax Parcels from Kent Co.; 1:2400 scale 2002 Ortho Image originated by Earl



Legend





TetraTech, Inc. 56 West Main Street, Suite 400 Christiana, DE 19702-1501 Phone: (302) 738-7551 Toll Free: (800) 462-0910 www.tetratech.com www.tetratech-de.com

Former UST Location
George and Lynch Dover, Kent Co., DE

1 inch equals 100 feet

100 200

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APPENDIX A Waste Oil Manifest

Remittance Address:

326 Martingale Circle Coatesville, PA 19320

610-383-5968

EPA ID # PAR000506964

DE - HW - 0550

B&E Oil Sves., Inc.

USED OIL MANIFEST (NON Hazardeus)

NUMBER

No. 7392

Used Oil Collection

NAME

STATE RECYCLING FACILITY

	. ,	PA	PADO141	146179	
CUSTOMER NAME JOSSITA: J+M Yard		BILL TO ADDRESS	Industri	<u> </u>	
druggs + Tank		1014 5.1	Market ST	<u> </u>	
		Wilm. L	DE 1980	<u>t</u>	occupacione de composições de compos
CUSTOMERPHONE #			75-0200		
DATE OF SERVICE 8-21-06 Bill	DRIVER'S NAMI	E .		TERMS	
DESCRIPTION			QTY.	UNIT PRICE	TOTAL
Used Oil (NON DOT/EPA	Reg.) E	RG # 128		. 3	
Oily Water		ERG#128	H30		
			gals		•*
				•	
				TOTAL AMOUNT DUE	. !
CUSTOMER PAYMENT: YES INVOICE AMOUNT CHECK # PURCHASE ORDER #	Ge	s to be completed by the Generate enerator EPA ID # Check if Conditionally Exempt as defined on 40 CFR 261 Check if Do-it-Yourself Collect	 Small Quantity Gen 5	nerator	
Generator's Certification: I hereby declare that the materials Polychlorinated Biphenyls (PCB's) or any other hazardous in Svcs., Inc. for any cost related to a misrepresentation of the	naterials defined	as a hazardous waste according	above, and have n ng to 40 CFR part	ot been mixed 261. I also inde	or blended with emnify B&E Oi
GENERATOR/CUSTOMER SIGNATURE					

APPENDIX B Tank Disposal Certification



P. O. Box 9798 • 1600 Bowers Street Wilmington, DE 19809 (302) 655-1501 • Fax (302) 655-5482

258775 TICKET NO.

Name	JEM TANK
Address	
Material 275 ge	Total Due
Remarks	
Gross	17220 1b 6 11:37 10-04-2006
Tare	14740 1b 6 11:48 10-04-2006
Net	2480
Driver ⊯ On □ Of	f

Diamond State Recycling Corporation is dedicated to responsible and environmentally safe operating procedures and practices. Diamond State Recycling Corporation's commitment to maintaining an environmentally sound workplace is demonstrated by our adoption of industry developed comprehensive environmental operating guidelines.

APPENDIX C Photograph Log



The location of the 1000-gallon UST as seen looking westward.



J&M crew beginning excavation of the tank.



The top and northern side of the UST after being uncovered.



The UST after being uncovered.



The UST and excavation immediately before removal of the UST from the excavation.



The excavation after the UST was removed.



The southern side of the UST.



The northern side of the UST.

APPENDIX D

Laboratory Report and Chain-of-Custody Form



Report To: Chris Geiger

Client: Tetra Tech, Inc 56 W.Main Street

Suite 400

Christiana, Dt 19702

Mid-Atlantic Environmental Laboratories, Inc. 100 Naamans Road, Suite 5A, Claymont, DE 19703

Phone: 1-866 798-4055 or (302) 798-4055 Fax: (302) 798-4085

> www.midatlantlcenvlabs.com mael@midatlanticenvlabs.com

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NELAC NJ ID# DE003

PA 1D# 68-566 DE ID# DE 028

MD ID# 292

ANALYTICAL REPORT

Lab Project #: 20277 Lab Sample #: 20277-1

Recleved: 6/26/2006

Reported: 7/3/2006

Date Sampled: 6/21/2006 2:30:00 PM

Sampled By: CWG Sample Matrix: Soil

Site Location:

Client Sample ID: GL-1000-Comp

Analyte	Result	Units	Method	PQL	Analyst	Date/Time Analysis
TPH-Diesel Range Organics TPH-Diesel Range Organics	<5.00	mg/kg	8015B	5.00	James Lucas	6/28/2006 5:26:00 PM
Analyte	Result	Units	Method	PQL	Analyst	Date/Time Analysis
Percent Moisture/Percent Solid Total Moisture	11.7	%	2540G	0.10	James Lucas	6/26/2006 3:17:00 PM

Total Results Reported on Dry Weight Basis

Sharon D O'Toole QA Manager



Report To: Chris Gelger

Client: Tetra Tech, Inc.

56 W.Main Street Suite 400

Christiana, Dt. 19702

Mid-Atlantic Environmental Laboratories, Inc 100 Naamans Road, Suite 5A, Claymont, DE 19703 Phone: 1-866 798-4055 or (302) 798-4055

> Fax: (302) 798-4085 www.midatlanticenvlabs.com mael@midatlanticenvlabs.com

Page 2 Of 2

NELAC NJ 10# DE003

PA ID# 68-566 DE ID# DE 028

MD ID# 292

ANALYTICAL REPORT

Lab Project #: 20277 Lab Sample #: 20277-2

Recieved: 6/26/2006 Reported: 7/3/2006

Date Sampled: 6/21/2006 3:30:00 PM

Sampled By: CWG Sample Matrix: Soil

Site Location:

Client Sample ID: GL-1000-Grab

Analyte	Result	Units	Method	PQL	Analyst	Date/Time Analysis
TPH-Diesel Range Organics						
TPH-Diesel Range Organics	6.85	mg/kg	8015B	5.00	James Lucas	6/28/2006 6:00:00 PM
Analyte	Result	Units	Method	PQL	Analyst	Date/Time Analysis
Percent Moisture/Percent Solid						
Total Moisture	10.9	%	2540G	0.10	James Lucas	6/26/2006 3:17:00 PM

Total Results Reported on Dry Weight Basis

Sharon D O'Toole QA Manager MID-ATLANTIC ENVIRONMENTAL LABS, INC. 100 NAAMANS RD SUITE 5A, CLAYMONT, DE 19703 PHONE: 1 866 798 4055 FAX: (302) 798 4085 LOCAL: (302) 798 4085

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7	GL-1000-Gab	10/re/9	520	Chit	8		×			SOC	Q-44-600
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Refiguished By:	shed By:			Date	Time	-	Received By			Date	Time
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